

[Sequence Listing]

<110> NEC Corporation and Dr. Masahiko KURODA

<120> Novel Cancer Gene And Its Use

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Ser Ser Lys Phe Asp Glu Val Phe Ser Asn Lys Arg Thr Thr Leu Ser

20 25 30

Thr Lys Trp Gly Glu Thr Thr Phe Met Ala Lys Leu Gly Gln Lys Arg

20 35 40 45

Pro Asn Phe Lys Pro Asp Ile Gln Glu Ile Pro Lys Lys Pro Lys Val

50 55 60

Glu Glu Glu Ser Thr Gly Asp Pro Phe Gly Phe Asp Ser Asp Asp Glu

65 70 75 80

25 Ser Leu Pro Val Ser Ser Lys Asn Leu Ala Gln Val Lys Cys Ser Ser

		85		90		95										
	Tyr	Ser	Glu	Ser	Ser	Glu	Ala	Ala	Gln	Leu	Glu	Glu	Val	Thr	Ser	Val
			100						105							110
	Leu	Glu	Ala	Asn	Ser	Lys	Ile	Ser	His	Val	Val	Val	Glu	Asp	Thr	Val
5			115						120							125
	Val	Ser	Asp	Lys	Cys	Phe	Pro	Leu	Glu	Asp	Thr	Leu	Leu	Gly	Lys	Glu
			130						135							140
	Lys	Ser	Thr	Asn	Arg	Ile	Val	Glu	Asp	Asp	Ala	Ser	Ile	Ser	Ser	Cys
	145					150					155					160
10	Asn	Lys	Leu	Ile	Thr	Ser	Asp	Lys	Val	Glu	Asn	Phe	His	Glu	Glu	His
					165					170						175
	Glu	Lys	Asn	Ser	His	His	Ile	His	Lys	Asn	Ala	Asp	Asp	Ser	Thr	Lys
			180							185						190
	Lys	Pro	Asn	Ala	Glu	Thr	Thr	Val	Ala	Ser	Glu	Ile	Lys	Glu	Thr	Asn
15			195							200						205
	Asp	Thr	Trp	Asn	Ser	Gln	Phe	Gly	Lys	Arg	Pro	Glu	Ser	Pro	Ser	Glu
			210							215						220
	Ile	Ser	Pro	Ile	Lys	Gly	Ser	Val	Arg	Thr	Gly	Leu	Phe	Glu	Trp	Asp
	225				230						235					240
20	Asn	Asp	Phe	Glu	Asp	Ile	Arg	Ser	Glu	Asp	Cys	Ile	Leu	Ser	Leu	Asp
					245						250					255
	Ser	Asp	Pro	Leu	Leu	Glu	Met	Lys	Asp	Asp	Asp	Phe	Lys	Asn	Arg	Leu
					260						265					270
	Glu	Asn	Leu	Asn	Glu	Ala	Ile	Glu	Glu	Asp	Ile	Val	Gln	Ser	Val	Leu
25			275								280					285

	Arg	Pro	Thr	Asn	Cys	Arg	Thr	Tyr	Cys	Arg	Ala	Asn	Lys	Thr	Lys	Ser
	290						295						300			
	Ser	Gln	Gly	Ala	Ser	Asn	Phe	Asp	Lys	Leu	Met	Asp	Gly	Thr	Ser	Gln
	305					310					315				320	
5	Ala	Leu	Ala	Lys	Ala	Asn	Ser	Glu	Ser	Ser	Lys	Asp	Gly	Leu	Asn	Gln
						325					330				335	
	Ala	Lys	Lys	Gly	Gly	Val	Ser	Cys	Gly	Thr	Ser	Phe	Arg	Gly	Thr	Val
						340					345				350	
	Gly	Arg	Thr	Arg	Asp	Tyr	Thr	Val	Leu	His	Pro	Ser	Cys	Leu	Ser	Val
10						355					360				365	
	Cys	Asn	Val	Thr	Ile	Gln	Asp	Thr	Met	Glu	Arg	Ser	Met	Asp	Glu	Phe
						370					375				380	
	Thr	Ala	Ser	Thr	Pro	Ala	Asp	Leu	Gly	Glu	Ala	Gly	Arg	Leu	Arg	Lys
	385					390					395				400	
15	Lys	Ala	Asp	Ile	Ala	Thr	Ser	Lys	Thr	Thr	Thr	Arg	Phe	Arg	Pro	Ser
						405					410				415	
	Asn	Thr	Lys	Ser	Lys	Lys	Asp	Val	Lys	Leu	Glu	Phe	Phe	Gly	Phe	Glu
						420					425				430	
	Asp	His	Glu	Thr	Gly	Gly	Asp	Glu	Gly	Gly	Ser	Gly	Ser	Ser	Asn	Tyr
20						435					440				445	
	Lys	Ile	Lys	Tyr	Phe	Gly	Phe	Asp	Asp	Leu	Ser	Glu	Ser	Glu	Asp	Asp
						450					455				460	
	Glu	Asp	Asp	Asp	Cys	Gln	Val	Glu	Arg	Lys	Thr	Ser	Lys	Lys	Arg	Thr
	465					470					475				480	
25	Lys	Thr	Ala	Pro	Ser	Pro	Ser	Leu	Gln	Pro	Pro	Pro	Glu	Ser	Asn	Asp

	485	490	495
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	500	505	510
	Phe Thr Glu Asp Leu Pro Gly Val Pro Glu Ser Val Lys Lys Pro Ile		
5	515	520	525
	Asn Lys Gln Gly Asp Lys Ser Lys Glu Asn Thr Arg Lys Ile Phe Ser		
	530	535	540
	Gly Pro Lys Arg Ser Pro Thr Lys Ala Val Tyr Asn Ala Arg His Trp		
	545	550	555
10	Asn His Pro Asp Ser Glu Glu Leu Pro Gly Pro Pro Val Val Lys Pro		
	565	570	575
	Gln Ser Val Thr Val Arg Leu Ser Ser Lys Glu Pro Asn Gln Lys Asp		
	580	585	590
	Asp Gly Val Phe Lys Ala Pro Ala Pro Pro Ser Lys Val Ile Lys Thr		
15	595	600	605
	Val Thr Ile Pro Thr Gln Pro Tyr Gln Asp Ile Val Thr Ala Leu Lys		
	610	615	620
	Cys Arg Arg Glu Asp Lys Glu Leu Tyr Thr Val Val Gln His Val Lys		
	625	630	635
20	His Phe Asn Asp Val Val Glu Phe Gly Glu Asn Gln Glu Phe Thr Asp		
	645	650	655
	Asp Ile Glu Tyr Leu Leu Ser Gly Leu Lys Ser Thr Gln Pro Leu Asn		
	660	665	670
	Thr Arg Cys Leu Ser Val Ile Ser Leu Ala Thr Lys Cys Ala Met Pro		
25	675	680	685

Ser Phe Arg Met His Leu Arg Ala His Gly Met Val Ala Met Val Phe  
 690 695 700  
 Lys Thr Leu Asp Asp Ser Gln His His Gln Asn Leu Ser Leu Cys Thr  
 705 710 715 720  
 5 Ala Ala Leu Met Tyr Ile Leu Ser Arg Asp Arg Leu Asn Met Asp Leu  
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 Asp Arg Ala Ser Leu Asp Leu Met Ile Arg Leu Leu Glu Leu Glu Gln  
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 Asp Ala Ser Ser Ala Lys Leu Leu Asn Glu Lys Asp Met Asn Lys Ile  
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 Lys Glu Lys Ile Arg Arg Leu Cys Glu Thr Val His Asn Lys His Leu  
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 Asp Leu Glu Asn Ile Thr Thr Gly His Leu Ala Met Glu Thr Leu Leu  
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 15 Ser Leu Thr Ser Lys Arg Ala Gly Asp Trp Phe Lys Glu Glu Leu Arg  
 805 810 815  
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 820 825 830  
 Asp His Leu Ser Arg Asp Glu Asp Glu Glu Lys Leu Val Ala Ser Leu  
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 Trp Gly Ala Glu Arg Cys Leu Arg Val Leu Glu Ser Val Thr Val His  
 850 855 860  
 Asn Pro Glu Asn Gln Ser Tyr Leu Ile Ala Tyr Lys Asp Ser Gln Leu  
 865 870 875 880  
 25 Ile Val Ser Ser Ala Lys Ala Leu Gln His Cys Glu Glu Leu Ile Gln

	885	890	895
	Gln Tyr Asn Arg Ala Glu Asp Ser Ile Cys Leu Ala Asp Ser Lys Pro		
	900	905	910
	Leu Pro His Gln Asn Val Thr Asn His Val Gly Lys Ala Val Glu Asp		
5	915	920	925
	Cys Met Arg Ala Ile Ile Gly Val Leu Leu Asn Leu Thr Asn Asp Asn		
	930	935	940
	Glu Trp Gly Ser Thr Lys Thr Gly Glu Gln Asp Gly Leu Ile Gly Thr		
	945	950	955
10	Ala Leu Asn Cys Val Leu Gln Val Pro Lys Tyr Leu Pro Gln Glu Gln		
	965	970	975
	Arg Phe Asp Ile Arg Val Leu Gly Leu Gly Leu Leu Ile Asn Leu Val		
	980	985	990
	Glu Tyr Ser Ala Arg Asn Arg His Cys Leu Val Asn Met Glu Thr Ser		
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	Cys Ser Phe Asp Ser Ser Ile Cys Ser Gly Glu Gly Asp Asp Ser Leu		
	1010	1015	1020
	Arg Ile Gly Gly Gln Val His Ala Val Gln Ala Leu Val Gln Leu Phe		
	1025	1030	1035
20	Leu Glu Arg Glu Arg Ala Ala Gln Leu Ala Glu Ser Lys Thr Asp Glu		
	1045	1050	1055
	Leu Ile Lys Asp Ala Pro Thr Thr Gln His Asp Lys Ser Gly Glu Trp		
	1060	1065	1070
	Gln Glu Thr Ser Gly Glu Ile Gln Trp Val Ser Thr Glu Lys Thr Asp		
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Gly Thr Glu Glu Lys His Lys Lys Glu Glu Glu Asp Glu Glu Leu Asp

1090

1095

1100

Leu Asn Lys Ala Leu Gln His Ala Gly Lys His Met Glu Asp Cys Ile

1105

1110

1115

1120

5 Val Ala Ser Tyr Thr Ala Leu Leu Leu Gly Cys Leu Cys Gln Glu Ser

1125

1130

1135

Pro Ile Asn Val Thr Thr Val Arg Glu Tyr Leu Pro Glu Gly Asp Phe

1140

1145

1150

Ser Ile Met Thr Glu Met Leu Lys Lys Phe Leu Ser Phe Met Asn Leu

10

1155

1160

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Glu Tyr Leu Glu His Cys

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